FISHWAY STATUS REPORT

Date:	9/8/2018		
Inspection Period:	9/2/2018	thru	9/8/2018



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US Army Corps of Engineers Portland District JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860

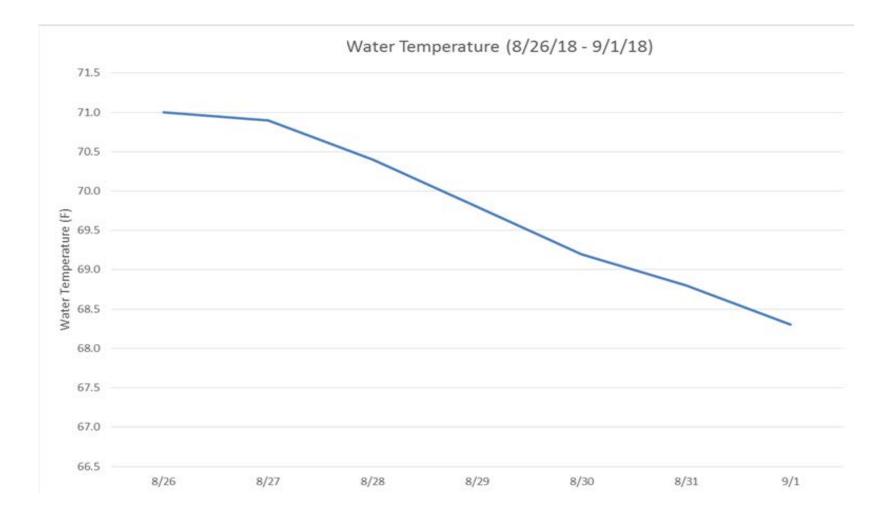
All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.

Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 14 Temperature: 68 F
	Out of Criteria	Limit	Secchi: 6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps total available.
Exit differential	0	≤ 0.5'	
Exit Control weirs	0	High setting	High setting is normal for JDN
Count station differential	0	≤ 0.3'	
Weir crest depth (DS gauge)	0	1.0' ± 0.1'	
Entrance differential	0	1.0' - 2.0'	AVG 1.5
SOUTH FISHWAY	0		In service with two AWS turbines and two FOGs.
Exit differential	0	≤ 0.5'	
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS
Count station differential	0	≤ 0.3'	
Weir crest depth (US gauge)	0	1.0' ± 0.1'	
South entrance differential	0	1.0' - 2.0'	AVG 1.4
Entrance weir SE1	0	depth (≥ 8')	AVG 8.5
Collection channel velocity	0	1.5 - 4 fps	AVG 2.17
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6
Entrance weir NE1	0	depth (≥ 8')	AVG 8.9
Entrance weir NE2	0	depth (≥ 8')	AVG 8.9
JUVENILE PASSAGE	0		In service since 2/28.
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	Monthly STS inspection was completed 8/21. All STSs found in good working order.
Turbine trashrack drawdown	0	<1.5', wkly	Monthly trashrack raking completed on 8/29. Very little debris raked/ recovered.
Vert barrier screen drawdown	0	<1.5', wkly	Trashrack and VBS differentials are below the criterion of 1.5'.
Spill volume	0	per FPP	Spill Season ended on 8/31. Bay 2 open at 1.6K for adult attraction to North Entrance on 9/1.
Spill pattern	0	per FPP	Bay 2 open at 1.6K during daylight hours for adult attraction to North Entrance since 9/1.
Turbine Unit Priority	0	per FPP	
Turbine 1% Efficiency	0	per FPP	

					SMOLT M	DNIT	FORING FACILITY
	-	-	-				nperature dropped down below 69.5 F on 8/31.
=		nvestigation	by JD Electri	cal/ Portland	District Engin	eers	is underway. Awaiting for \$ 170 K UFR to complete in FY18.
Research: Non Fallbacks:	e AVG:	0	MAX	0	MI	۷:	0
Birds :							
	s declined s	ignificantly s	since the end	of spill seaso	n on 9/1. See	Avia	an Numbers tab for details.
All 125 avian lir					,		
Operations:	p						
-	ay in service,	with two AV	WS turbines a	ind two FOGs	since 2/28/2	8. A	waiting special funding to overhaul turbines 1 & 2 (\$ 3 million each.)
JD North Ladde	r in service s	ince 12/21/1	17. 6 out of 6	AWS pumps	available aga	n sin	nce 4/18/18.
MU Gatewell D	rawdowns:	All MUs tra	ashrack diffe	entials are 1.	5' or below a	ccor	ding to twice a week inspections.
Maintenance:							
JD South AWS t	urbine 1 is O	OS, in poor	condition an	d urgently aw	aiting its over	haul	as soon as \$ 3 million becomes available (hopefully in a year or two ?)
Calibration: All	gauges/ sen	sors are with	hin the criter	a of 0.3' .			
Research:							
JDS and JDN Ad	ult PIT syste	ms are in ser	rvice and det	ecting PIT tag	since 3/1/18		
Lamprey trappi	ng at JD S Tra	ap and JD N	LPS by CRITF	C/ Tribes com	pleted on 8/2	2. G	bood season collection #s in spite of the lower lamprey passage in 2018.
WDFW NPM ar	gling from J[) PH Tailrace	e deck contin	ues since 5/1.	VERY Low #	s in A	August, but still great total seasonal catch of 2,864 NPM thru 9/02.
Uof I crew con	tinues monit	oring the RT	Adult Lamp	ev passage at	both JD Adu	t Fisł	nwavs

MOYNAHAN, KEVIN PATRICK, 1393959157 MOYNAHAN, KEVIN PATRICK, 1393959157



JDA Collection Channel Velocity

Date	24-Aug-18
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:19	79	2.28
2 - 4	2:33	153	2.43
4 - 6	3:56	236	2.17
6 - 8	5:19	319	2.17
8 - 10	6:35	395	2.37
10 - 12	7:48	468	2.47
12 - 14	9:12	552	2.14
14 - 16	10:24	624	2.50
16 - 18	11:22	682	3.10
			2.40

Bay 19 TW: 159.9 turbine 2-3=68rpm

FPP Criteria 1.5–4.0 feet per second (2 fps optimum)



	Temp:		Secchi:	_	Fallbacks
Sun	68		6.0		37
Mon	68		6.0		bypass
Tue	68		6.0		46
Wed	69		6.0		bypass
Thur	69		6.0		55
Fri	68		6.0		bypass
Sat	68		6.0		70
AVG:	68	AVG:	6.0	AVG/Sample	52
				MAX	70
				MIN	37

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.7	8.7	1.4	8.5	1.4	4.6	1.7
Sun	8.7	8.7	1.2	8.3	1.5	4.6	1.1
Mon	8.2	8.2	1.4	8.0	1.5	4.6	1.8
Mon	9.4	9.5	1.2	8.8	1.4	4.6	1.3
Tues	9.3	9.3	1.4	8.9	1.6	4.5	1.5
Tues	9.4	9.4	1.5	9.0	1.4	4.6	1.8
Wed	8.7	8.7	1.5	8.0	1.7	4.6	1.8
Wed	9.4	9.4	1.3	9.0	1.6	4.6	1.7
Thur	8.9	8.9	1.4	8.5	1.6	4.6	1.7
Thur	8.8	8.9	1.5	8.3	1.6	4.6	1.6
Fri	8.8	8.8	1.6	8.5	1.4	4.6	1.5
Fri	8.6	8.6	1.3	8.5	1.4	4.6	1.7
Sat	8.7	8.7	1.4	8.4	1.4	4.7	1.7
Sat	8.4	8.4	1.5	8.0	1.5	4.6	1.6
AVG:	8.9	8.9	1.4	8.5	1.5	4.6	1.6

JDA Bird Counts: <u>9/2/18</u> to <u>9/8/18</u>

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date Zo	one		G	ìulls			Cori	morant			Caspia	n tern			White	e Pelica	an		G	rebe		Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
2-Sep PH	IFB	0	0	33	43	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	81
2-Sep SW	VFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep PH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	27
2-Sep PH	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep PH	3	18	0	22	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	41
2-Sep SW	/1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
2-Sep SW	/2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
2-Sep SW		16	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	19
Avg/Surve		1	7	4	9	()	3	3		0	(0	2	0	(0	(0	(0	176
3-Sep PH	_	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4
3-Sep SW		0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
3-Sep PH	1	5	1	0	0	0	1	0	0	0	0	0	0	0	12	0	0	0	0	0	0	19
3-Sep PH	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
3-Sep PH		16	19	0	0	0	0	0	0	0	0	0	0	2	2	0	37	0	0	0	0	76
3-Sep SW	/1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3-Sep SW	/2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Sep SW		4	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	6
Avg/Surve		2	7	3	0	1	L	(0		0	(0	9	9	1	.9		1	(0	171
4-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep SW	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep SW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep SW	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep SW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Surve		C		()	((0		0	1	0		0	(0	1	0	(0	0
5-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep SW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep PH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep PH	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep SW	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep SW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep SW		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Surve	ey	C)	()	()	(0		0	(0	(0	(0	(0	(0	0

JDA Bird Counts: <u>9/2/18 to</u> <u>9/8/18</u>

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		Ģ	alls			Cori	morant	;		Caspia	n tern			White	e Pelica	n		G	rebe		Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
6-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Sep	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	()	(0	()	()		0	(0	(0	()	(0	()	0
7-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	()	(0	()	()		0	(0	(0	()	(0	()	0
8-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	()	(D	(0	()		0	(D	(0	(0	(0	()	0

Totals	G	Gulls	Cor	morant	Caspia	an tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	87	158	2	5	0	0	57	37	1	0	347
Avg/Survey	6	11	0	0	0	0	4	3	0	0	25